



SEQUENCE LISTING

<110> SHAO, Wei et al.

<120> ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
THEREOF

<130> CL001204-DIV

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<141> 2004-01-21

<150> 09/820,790

<151> 2001-03-30

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<170> FastSEQ for Windows Version 4.0

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<211> 2218

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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 gtggggctgg gccaggatct gcagggggaa cagcccatag tggcacattc cacggcccat 180
 ggggagacgg ggccacggtg gtgcagtaga gaggtgtcta agccagtggc agccaagggg 240
 agggcttgcc gtcacctctg tgttccctca gtgctgctct gtggctgcct gagaggcagg 300
 rcttaggggc tccctgccgg ggaggggagg ggtccccacc atgctccgct ccaactgcgc 360
 ccctcagtgc cccttgccct gggggctcct acaggtgaac cctatagcag tactcccaag 420
 gatgtaaagt tgtggctggg gggtgccggc cttcctgctg gggcgctgtg ctgtgtcccc 480
 tcagctgtcc taagagcttt ggggcttgct ggcccgtagg tccccatatt tgctggaagc 540
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 c 601

<210> 15
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 15
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 acttctttct cgcaggctct ggccaccac acctcctctg tctccctgtt cccctcctgg 180
 tggctctccg ttctcctct tctcaatttc cctctctttc cttcctctgt gtcttctctc 240
 ttctgtagga gcctcaaacc accgtcatcc ataaccagt ggacgggatt aaggctactgc 300
 yccactttcc tcttcccgtt tccccaggc aggaggctcc aggccaggag agaggctctg 360
 ggcagcattt gtgccagagt ggagggcaga tgtcccatgg ccctggccgc ccctccccgc 420
 agtacggtag ggccccagtc cgtcttcgtg ggcaacaaca ggacagactg gctcaggccc 480
 caggcgccgc cctggagggtg cttggcacag ttgcgcccgg tccccatgtg gccgacactc 540
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 g 601

<210> 16
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 16
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 ctgccgtgag aatgcaccct ggtgaggggc gccctcccag ggaccagcac agaactgggt 180
 gtcttctccg gtcactgccg catgaggtcc acagagctgg ggccctgcag ccgccagagg 240
 gcatgtcccc tgagcccctg gcctttaagc cccgtggaag cagccgaggc agagatcagc 300
 ytcagagcct gggctgggtc tgacacaggc ccagccctgt ccacctgcc tccagccacgt 360
 cccacctatc cttggccgca tctgacccg ctgcctcccg tgtttcctca ggagtcttct 420
 gacagtgccca ataccacat agaggatgaa gacgctaaag gtacctgcac ttgagtcctt 480
 gcccccccag cggccttggc attgctgggt tgctctttga ggtgggtggg acttgggcag 540
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 c 601

<210> 17
 <211> 601

<212> DNA
 <213> Homo sapiens

<400> 17

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gctgtggggg tcatgttgga gggctggcaa ccccttagag gggccactcc agagccgagg 180
gcaggctgag cgtggaccct ggctccagcc tcatcaccac acaatccctc actggggctt 240
tccaggtggg cccagcccca tcgagcccca cctctttgtg aggagggccc tggaccactt 300
yccctgctcaa ggccactggg caggatggga ggccctggag gctcgggccc caattccagt 360
cttcagggtc ggtgcaggcc tcaactccacc tcagcttgcg ggcggggggg ctccctgcta 420
ttgaggcagg ctctgattca gggcctgac ccagggccca aggggtctag aacacgggac 480
ccctcccact ggctcctcc gccttgccgc cgcctcgtgt gtctgtctgc ctcatgttca 540
cgtctcatct gttccacccc agcccccagg gatctctgac atcctgaact ctgtgagaag 600
g 601
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<210> 18

<211> 601

<212> DNA

<213> Homo sapiens

<400> 18

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ctgttccgcc ccagcccca ggatctctga catcctgaac tctgtgagga ggggctcagg 180
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yggaggggct cggggcgtgc gagcctggca gtggtgctct gggaagggcc attcttgccg 360
aggagggcgg ggcacaggat cctctgctg ggtcccaggg aattgctttg aagcacatga 420
aggtgccact ggggtctcaga aaatggagggt tatggttatg aagtgtgtat gacatatgtg 480
tataggaaga gcgtccgaaa gagcagggtt gttgccgacc ccagcattcg caaccctgag 540
gtccacagct ttctctgat gggaggggaa tgggtggcaa agggctctcg cgtgtggcaa 600
g 601
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<210> 19

<211> 601

<212> DNA

<213> Homo sapiens

<400> 19

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aagtacttga gggacagggt ggggtctgctt gccaccgtcc cctctgcagg ctgggcctgg 180
gggctgctgc aggcggccag ggcagaaggg tgtggggaga gtgaaccac aggagcagcg 240
gctcgaggag ggggatgcag gctgcaggct caaaggggca ctggatccac cctgggtgcc 300
ygagagagca gggggcagcc cctggagggg tactacccc cagagcttct gtggtcggct 360
gaggaccccc agcagggggt gactgagggg atcagaggca agcagctgag gggagaggcc 420
aggttcttga tgctgatagg gtcggggtgc ctgggcgacc agaactcaag gagggaggca 480
tggggagggg ccgccgtgca gctggggtgg gtgcaccgca gagcctctgg gagtggtcag 540
aacccccgac acctgccact tctacagcag ctcatctgat tttaaggggc ttgctgccct 600
t 601
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<210> 20

<211> 601

<212> DNA

<213> Homo sapiens

<400> 20
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acttcattaa acagaagatt agtttcactt accattagtg taagggtgact atagaaccaa 180
agcagactgg aaaccaaagt acataatgtc attctcttct ccattccagc tgcctgctgc 240
tgtgcgcctg agaaccctg tggagtggga ggggcagctg tctctgtaca ttagaaaggg 300
rggttaacta agtgacagga ggtgtttggg acatgtggac accagacttc tctcttgatg 360
caaggagggc agagccaggc agcctagtgg gggctggctt gggggctgct ggaaggactg 420
gctacaggtg gaagagaggt cagacctgaa gcttggggcc acctccagga aaggacaggt 480
gaaagtggag gcatgaggca ggggagaggc aggtgccagg cagagggtgg agaggaggca 540
ggaacatagc agctggggcg ggggcggggc ctcaagtgtc atatgtact ttcctggggc 600
c 601

<210> 21
<211> 601
<212> DNA
<213> Homo sapiens

<400> 21
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cacttgaggt taggagtttg agaccagcct ggccaatatg gtgaaacctc atctccacta 120
aaaatataca cacacaaaaa ttagctgggt gtggtggtgt gcacctgtag ttccagctac 180
tcgggaggct gaggcaggag aatcgcttga acctgggagt cagagactgc agtgagccga 240
gatcatgtca ctgcactcca gcccgggtga cagagtgaga ctccatctaa aaaaaaaaaa 300
vaattccctc ctctgggaat ttagaccaca gacaggttgc atgtatgtgg ccgttggagg 360
cagcactcac agcaaagagt ggaaacgtca ccacagggcc tgccttctgg tgaaaatggt 420
gtcctgcagg gcgggcagct gtttgagggc aggtgtccca ggtgcggcct gcagcagcct 480
gagggtcaca gagcgagctg ctgggagctg agagacttcc cccacaggga gagttcccag 540
gaacctgctt ccggtgcact tctggggggt tgagtttttt ccacggacga attactttga 600
g 601

<210> 22
<211> 601
<212> DNA
<213> Homo sapiens

<400> 22
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atatacacac acaaaaatta gctgggtgtg gtggtgtgca cctgtagttc cagctactcg 120
ggaggctgag gcaggagaat cgcttgaacc tgggagtcag agactgcagt gagccgagat 180
catgtcactg cactccagcc cgggtgacag agtgagactc catctaaaaa aaaaaaagaa 240
ttccctctc tgggaattta gaccacagac aggttgcatg tatgtggccg ttggaggcag 300
yactcacagc aaagagtgga aacgtcacca cagggcctgc cttctggtga aaatgggtgtc 360
ctgcagggcg ggcagctgtt tgagggcagg tgtcccaggt gcggcctgca gcagcctgag 420
ggtcacagag cgagtgctg ggagtgacga gacttcccc acagggagag ttcccaggaa 480
cctgcttccg gtgcacttct gggggtttga gttttttcca cggacgaatt actttgagaa 540
accactgtta ctctgtgtga taggtgagcg tgcgtgtgca tgtgtgttct gtgtgtgagt 600
g 601

<210> 23
<211> 601
<212> DNA
<213> Homo sapiens

<400> 23
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tctctgcctt ctgcctggtt gcctgcactc agtagcccc tcaccagagc tgctgggtga 120

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aggaagcact aagaacccaa ggctcgggag gagagtgggg ccggaagct gcaggggaagc 180
gcagggccag gcctggtggg cccaggggct ggctcacggg agggcaggag ggagactgtg 240
gcggacagca cgtggggcca ggaggtgacc tccaagtggg ttgtgggtgg gttttttgtc 300
ytctttctgc attttccagg cattttgtaa tgtggataga atatttctgt tcttcaaaaa 360
tacttttagtt aagaaaaata agatggaagc tgttgcaatt gaaaatgagg aagccactgg 420
tgatgcaggg ggggcggcgg agaggacctc ttctgcaaat agcggcagga acacggcatg 480
gatgcagctc gcgctcccc aggccctccc ctgggctgtg tggaggggtc cggggggaat 540
gggccagcgc ccagtgggtca cctggccatg tctccccaca gcccgaagc aggagatcat 600
t
601

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<210> 24
 <211> 601
 <212> DNA
 <213> Homo sapiens

<220>
 <221> variation
 <222> (301)...(301)
 <223> 'G' may be either present or absent (single
 nucleotide insertion/deletion polymorphism)

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<400> 24
ataagatgga agctgttgca cttgaaaatg aggaagccac tggatgatgca gggggggcgg 60
cggagaggac ctcttctgca aatagcggca ggaacacggc atggatgcag ctgcgctcc 120
cccagccct cccctgggct gtgtggaggg gtccggggg aatgggccag cggccagtgg 180
tcacctggcc atgtctcccc acagcccga agcaggagat cattaagacc acggagcagc 240
tcatcgaggc cgtcaacaac ggtgactttg aggcctacgc gtgagtccct ggggctgggg 300
gggggctgtg caggacaagg atgtgggacc cttggggggg cctgctcaga gtcaggggtc 360
cacggggccc ctctcactt ggatttggcc cccaggaaaa tctgtgacct agggctgacc 420
tcgtttgagc ctgaagcact gggcaacctg gttgaaggga tggacttcca cagattctac 480
ttcagaagc gtgagtggg aagcccgggt gggcatgagg gggcgggtgc cccaggagag 540
cctctcggcc cctcccagg acagcatggt ggctgcctat ggaagccctg tcccctctgt 600
g
601

```

<210> 25
 <211> 415
 <212> DNA
 <213> Homo sapiens

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<400> 25
cccgccagag gccataccca gccccagaa tccactctt ggagggggccc atgctgctcc 60
caggagagcc gagcctcccc aataaggga gttgagagag ggaaaggatt aggtggtgg 120
ggtggaagac gggcaccagg gcagtcattg taaccgcaga ccccgcccc gcctgctgtc 180
cacagtgtg gccagaaca gcaagccrat ccacacgacc atcctgaacc cacacgtgca 240
cgtcattgga gaggatgccg cctgcatcgc ttacatccgg ctacgcagt acattgacgg 300
gcagggccgg ccccgaccca gccagtctga ggagaccgc gtgtggcacc gccgcgacgg 360
caagtggcag aacgtgcact tccactgtc gggcgcgct gtggccccgc tgcag 415

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<210> 26
 <211> 601
 <212> DNA
 <213> Homo sapiens

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<400> 26
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gcaccagggc agtcatggta acccgagacc cccgccccgc ctgctgtcca cagtgtggc 120
caagaacagc aagccgatcc acacgaccat cctgaaccca cacgtgcacg tcattggaga 180

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ggatgccgcc tgcacgcctt acatccggct caccgagtag attgacgggc agggccggcc 240
ccgcaccagc cagtctgagg agaccgcggt gtggcaccgc cgcgacggca agtggcagaa 300
ygtgcacttc cactgctcgg gcgcgcctgt gggcccgcctg cagtgaagggt gagtgttctg 360
tgctaagtga cagctggggc agaggggtgg cgggtggtgtg agtggctgca gcctggggag 420
gcgatgggga gcggtggggc ctgtggcaga gcccatgcct gggaggtccc tgagctttcc 480
tggtgaggcc acaggaatga tgtcaaatta gggaccacgg caggctgggt gtggcaggcc 540
tccccagagg actggggagc tggtaggggc ctgagcagtc cacactggcc agagctgggt 600
g
601

```

<210> 27
<211> 601
<212> DNA
<213> Homo sapiens

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<400> 27
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ccccagcctg ttcggcttct ctgcagcccg caagggggag cagacttttg acaaaggact 180
gcgggcctcg ctcaagtccc tgagccccc gctgaagctg ggaggggagg ccaggctttg 240
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gcagaaggga gcaaaagcta cagtgggagc cagcctaggg cacatgggag gcgtgagggc 480
agtgtgccc gtgcagtgtc aggtgtgcca gtgccttggc gggctgcagt gcgtgtgagg 540
gcaccttcta ggtgggccag ggatgcagct atggagataa ggcgggctgg ggacagaaac 600
a
601

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<210> 28
<211> 601
<212> DNA
<213> Homo sapiens

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<400> 28
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gcaactgcac ctgcctgtgc tatgttgccc cttctcagcc tcaatgccct cctccctccc 180
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yggcactttc ctaaacagaa ggatgggctt caaaacagtc ccagacacta aacacacctg 360
cattttgggt ccaagtaact tctgacaaga cgagtgcgcc tacacaccct cagtcctatc 420
cactatgggc aaggagcctg aaggatcccc cagaactggc taaagccctc agtctcctcc 480
tccaccctga gcaccttcac gcggcagag ggcctggat gtcagcttct tgctcccat 540
ggtctgcacc tggacagggt ctctcagggt tgtgggtggg cagggtggcag gtcccaagag 600
c
601

```

<210> 29
<211> 601
<212> DNA
<213> Homo sapiens

```

<400> 29
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cctcctccct ccccgacgca ccctcgtggc ccccgctggg cccctgatg caccctcatg 120
tctccatggc aacctgctca gagtgtggcc ctgcccttgg ctccctcca cacctgtgtc 180
ccaggcagtg ccacggcact ttcctaaaca gaaggatggg cttcaaaaca gtcccagaca 240
ctaaacacac ctgcattttg ggtccaagta acttctgaca agacgagtgc ccctacacac 300
yctcagtcct atccactatg ggcaaggagc ctgaaggatc cccagaact ggctaaagcc 360

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ctcagtctcc tctccaccc tgagcacctt cacgcggcag agtggccctg gatgtcagct 420
tcttgctccc catggtctgc acctggacag gtgctctcag gtgtgtgggt gggcaggtgg 480
caggtcccaa gaggcaggtg caaagaatct aggccagtgc ccacgagtgc tgcagtgtct 540
gtccccagca tggatatctag ggctccactt gcctatcagc tgtaatcgga ggaggctttc 600
c 601

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<210> 30

<211> 403

<212> DNA

<213> Homo sapiens

<400> 30

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aagaatctag gccagtgcc acgagtgctg cagtgtctgt cccagcatg gtatctaggg 60
ctccacttgc ctatcagctg taatcggagg aggctttcca ggccaggcct ccccaggaa 120
ggctgcaggc actgcggatc gtgcgccctc acatgcatta ttcctgaggc ctttctgcag 180
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rcttttattt ttatatattt ttgagagga gcctcactct gtcgcccagg ctggagtgca 360
gtggcgcgat cttggctcac tgcaacttct cctcctggg ttc 403

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